

ABSTRACT OF THE DISCLOSURE

AUTOSTEREOSCOPIC DISPLAY

An apparatus for displaying an image to an observer. The apparatus comprises a display screen upon which stripes of the image appear in at least three distinct phases. The apparatus comprises a light blocking shutter disposed in front of the display screen forming a stripe pattern which lets through only 1/3 of each stripe of the image on the display screen during each of the at least three distinct phases. The apparatus comprises a computer connected to the display screen and the light blocking shutter which changes the phases so in each phase the stripe pattern is shifted laterally, which renders 2 3D scenes corresponding to the eyes of the observer, which produces a proper left/right orientation pattern for each of the three phases and which interleaves the left/right orientations into three successive time phases as red, green and blue, respectively. The apparatus comprises an eye tracker for identifying the locations of the observers' eyes and providing the location to the computer. A method for displaying an image to an observer.